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Applicant

MOTOROLA INC et al

The International Bureau transmits herewith the following documents:

- ☐ copy of the international application as published by the International Bureau on under
No. WO
- ☒ copy of international application as republished by the International Bureau on 28 July 2005 (28.07.2005) under
No. WO 2005/034553
For an explanation as to the reason for this republication of the international application, reference is made to INID codes (15), (48)
or (88) (as the case may be) on the front page of the attached document.

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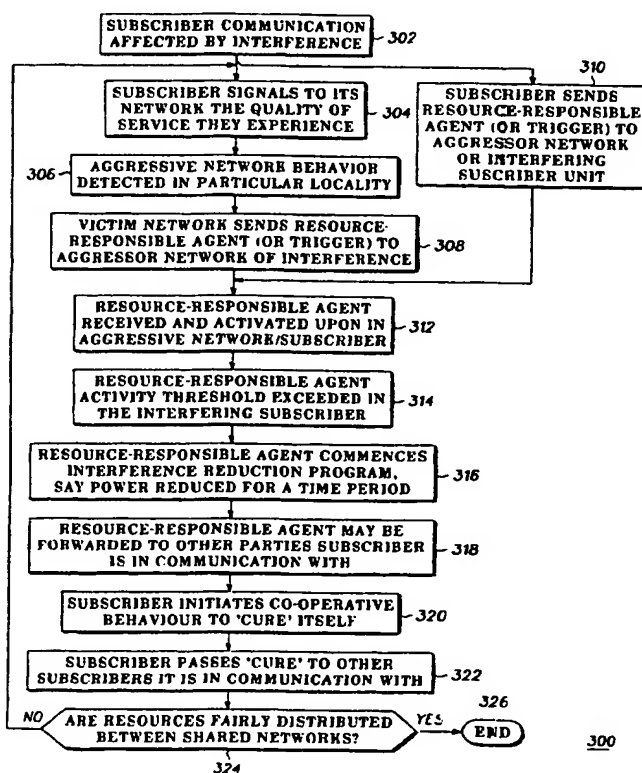
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(54) Title: ADAPTION FUNCTION IN A RESOURCE-IRRESPONSIBLE COMMUNICATION UNIT FOR REDUCING A LEVEL OF INTERFERENCE OR MAKING A PORTION OF A SHARED RESOURCE AVAILABLE FOR USE



(57) Abstract: A wireless communication system (200) comprises one or more communication networks supporting communications for a plurality of communications units on a shared communication resource. An identification function (144) identifies interference within, or non-availability of, a portion of the shared resource; and a communication adaption function (142), responsive to a resource-responsible agent (140) that is triggered when interference is identified, reduces a level of interference or makes a portion of the shared resource available for use. A communication unit and a method of sharing a communication resource are also provided. In this manner, a mechanism identifies and targets those resource irresponsible users for automatic adjustment of their performance attributes to minimise interference in one or more communication networks.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04Q7/36 H04L12/24 H04L12/56

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B. FIELDS SEARCHED

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IPC 7 H04Q H04L H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/35607 A (VOYAN TECHNOLOGY) 17 May 2001 (2001-05-17)	24
Y	paragraphs [0016], [0017]	25
A	paragraph [0022] - paragraph [0026] paragraphs [0032], [0034], [0036] -----	1-5, 10, 26, 27
Y	US 2003/123420 A1 (SHERLOCK IAN J) 3 July 2003 (2003-07-03) paragraph [0003] - paragraph [0005] paragraphs [0008], [0009] paragraph [0025] - paragraph [0031] abstract ----- -/--	1-5, 10-20, 24, 26-29

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/052001

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 01/78434 A (BIGHAM JOHN ; CUTHBERT LAURIE (GB); PARINI CLIVE (GB); QUEEN MARY & WE) 18 October 2001 (2001-10-18)	1-5, 10-20, 24,26-29
A	page 3, line 1 - line 32 page 5, line 5 - page 6, line 18 page 8, line 26 - page 12, line 32 abstract	25
A	----- US 5 594 946 A (MENICH BARRY J ET AL) 14 January 1997 (1997-01-14)	1-5, 10-20, 26-29
	column 1, line 55 - column 2, line 13 column 2, line 43 - line 59 column 7, line 31 - column 8, line 58 abstract; figure 4	
A	----- US 2003/016651 A1 (CHU WAI YIN ET AL) 23 January 2003 (2003-01-23)	1-5, 10-20, 26-29
	paragraph [0007] paragraph [0011] - paragraph [0016] paragraph [0063]	
A	----- WO 98/23101 A (SHTROM VICTOR ; FROST OTIS L (US); ARGO SYSTEMS INC (US); HOGENAUER EU) 28 May 1998 (1998-05-28)	1-5, 10-20, 26-29
	page 7, line 3 - page 8, line 10	
Y	----- EP 0 621 707 A (IBM) 26 October 1994 (1994-10-26)	25
A	page 3, line 51 - line 56	1,10,24, 26
	page 5, line 9 - line 36 page 7, line 50 - page 8, line 46 page 9, line 40 - page 12, line 31	
P,X	----- EP 1 420 602 A (HONG KONG APPLIED SCIENCE AND) 19 May 2004 (2004-05-19)	1,24,26
	paragraph [0008] - paragraph [0012] paragraph [0021] paragraph [0025] - paragraph [0028] paragraph [0031] - paragraph [0034] paragraph [0042] paragraph [0047] - paragraph [0054] paragraphs [0059], [0062], [0065]	

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2004/052001

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-5, 10-20, 24-29

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-5,10-20,24-29

Independent Claims 1, 10, 24 and 26 relate to the provision of a resource-responsible agent for reducing a level of interference or making a portion of the shared resource available for use, in particular to:

- an identification function for identifying interference,
- a resource-responsibility agent responsive to the identification function, and
- a communication adaption function responsive to the resource-responsibility agent, for reducing a level of interference or making a portion of the shared resource available for use.

2. claims: 6-9,21-23

Independent Claim 21 relates to a reconciliation and mediation agent for reconciling an interference that a first network causes to (an)other network(s) by being operably coupled to and mediating between the at least two interfering uncoordinated networks.

Remark:

Dependent claims 6-9 relate to an appliance of the second invention in the first invention.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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